

Title (en)
THERMOPLASTIC RESIN FOAM

Title (de)
THERMOPLASTISCHER HARZSCHAUM

Title (fr)
MOUSSE DE RESINE THERMOPLASTIQUE

Publication
EP 1829918 A4 20080409 (EN)

Application
EP 05816737 A 20051213

Priority
• JP 2005022858 W 20051213
• JP 2004373270 A 20041224

Abstract (en)
[origin: EP1829918A1] [PROBLEMS] An object of the present invention is to provide thermoplastic resin foam which has both high reflectance and superior shape-retention properties, suitable for use in backlights and illumination boxes for illumination signboards, lighting fixtures, displays and the like. [MEANS FOR SOLVING PROBLEMS] The thermoplastic resin foam is manufactured by a manufacturing method comprising a procedure for holding a resin sheet composed of thermoplastic resin (A) and thermoplastic resin (B), which has a functional group having an affinity with thermoplastic resin (A), within a pressurized inert gas atmosphere to enable the resin sheet to contain inert gas, and a procedure for foaming by heating the resin sheet containing inert gas at a temperature higher than the softening temperature of thermoplastic resin, under normal pressure.

IPC 8 full level
B32B 5/18 (2006.01); **C08J 9/12** (2006.01)

CPC (source: EP KR US)
B32B 5/18 (2013.01 - KR); **B32B 5/20** (2013.01 - EP US); **B32B 27/065** (2013.01 - EP US); **C08J 5/18** (2013.01 - KR); **C08J 9/22** (2013.01 - KR); **C08L 25/00** (2013.01 - KR); **B32B 2266/0207** (2013.01 - EP US); **B32B 2266/0228** (2013.01 - EP US); **B32B 2266/0264** (2013.01 - EP US); **B32B 2266/0292** (2013.01 - EP US); **B32B 2270/00** (2013.01 - EP US); **B32B 2307/416** (2013.01 - EP US); **B32B 2307/71** (2013.01 - EP US); **B32B 2307/72** (2013.01 - EP US); **B32B 2590/00** (2013.01 - EP US)

Citation (search report)
• [A] WO 0044804 A2 20000803 - ARISTECH ACRYLICS LLC [US]
• [A] EP 0386663 A1 19900912 - UC IND INC [US]
• [X] DATABASE WPI Week 199413, Derwent World Patents Index; AN 1994-106356, XP002470721
• [DA] DATABASE WPI Week 199918, Derwent World Patents Index; AN 1999-210917, XP002470684
• See references of WO 2006068009A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 1829918 A1 20070905; **EP 1829918 A4 20080409**; **EP 1829918 B1 20111228**; **EP 1829918 B9 20120620**; CA 2563608 A1 20060629;
CN 1997695 A 20070711; CN 1997695 B 20101215; ES 2379535 T3 20120427; ES 2379535 T9 20120724; JP 5158836 B2 20130306;
JP WO2006068009 A1 20080612; KR 101234998 B1 20130220; KR 20070097403 A 20071004; MY 147796 A 20130131;
TW 200621862 A 20060701; TW I334425 B 20101211; US 2008300334 A1 20081204; US 8314160 B2 20121120; WO 2006068009 A1 20060629

DOCDB simple family (application)
EP 05816737 A 20051213; CA 2563608 A 20051213; CN 200580019109 A 20051213; ES 05816737 T 20051213; JP 2005022858 W 20051213;
JP 2006548851 A 20051213; KR 20077001928 A 20051213; MY PI20056180 A 20051223; TW 94143616 A 20051209; US 57166205 A 20051213